ORIGINAL INSTRUCTIONS

# Petrol Lawn Mower

RLM5319SMEB

## Important!

It is essential that you read the instructions in this manual before operating this machine.

Subject to technical modifications.

## GENERAL SAFETY RULES

**⚠ WARNING**

To reduce the risk of injury, the user must read and understand the operator's manual.

**⚠ WARNING**

Do not attempt to operate this mower until you have read thoroughly and understood completely all instructions, safety rules, etc., contained in this manual. Failure to comply may result in accidents involving electric shock, fire, and/or serious personal injury.

### PERSONAL SAFETY

- This lawn mower is capable of amputating hands and feet, and throwing objects. Failure to observe all safety instructions could result in serious injury or death.
- Never allow children or people unfamiliar with the instructions to use the machine. Local regulations may restrict the age of the operator.
- Stay alert, watch what you are doing, and use common sense when operating the lawn mower. Do not operate the mower while tired or under the influence of drugs, alcohol, or medication. A lapse in concentration while operating the machine may result in serious personal injury.
- Wear heavy, long trousers, long sleeves, boots, and gloves. Do not wear loose fitting clothing, short trousers, sandals, or go barefoot.
- Always wear safety glasses with side shields. Use face mask if operation is dusty.
- Always be sure of your footing. Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance.
- Walk, never run.
- Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes.
- Do not mow near drop-offs, ditches, excessively steep slopes, or embankments. Poor footing could cause a slip and fall accident.
- Plan your mowing pattern to avoid discharge of material toward roads, public pavements, bystanders and the like. Also, avoid discharging material against a wall or obstruction, which may cause the material to ricochet back toward the operator.

### WORK AREA SAFETY

- Never mow while people, especially children, or pets are nearby.
- Always mow in the daylight or in good artificial light.
- Do not operate the machine in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. The tool create sparks which may ignite the dust or fumes.
- Objects struck by the lawn mower blade can cause severe injuries to persons. Thoroughly inspect the area where the machine is to be used and remove all rocks, sticks, metal, wire, bones, toys, or other foreign objects.
- Do not operate the machine in wet grass or in the rain.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.
- Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.
- Be alert and turn mower off if a child enters the area.
- Never allow children or people unfamiliar with the instructions to use the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view.
- Keep work area clean.
- Keep work area well lit.
- Cluttered or dark areas invite accidents.

### GARDEN TOOLS USE AND CARE

- Before using, always visually inspect to ensure blades, blade bolts, and cutter assembly are not worn or damaged.
- Replace worn or damaged blades and bolts in sets to preserve balance.
- Check all nuts, bolts, and screws at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
- Check the grass catcher frequently for wear or deterioration.
- Replace worn or damaged parts.
- Do not force the product. It will do the job better and safer at the speed for which it was designed.
- Do not overload your mower. Mowing long thick grass may cause the motor speed to drop, or the power to cut out. When mowing in long thick grass a first cut with the cutting height set higher will help reduce the load. See adjusting the blade height.
- Stop the blade when crossing gravel surfaces.
- Do not pull the mower backward unless absolutely

necessary. If you must back the machine away from a wall or obstruction, first look down and behind to avoid tripping or pulling the machine over your feet.

- Stop the blade(s) if the machine has to be tilted for transportation when crossing surfaces other than grass, and when transporting the machine to and from the area to be mowed.
- Never operate the machine with defective guards or shields, or without safety devices, for example deflectors and/or grass collector, in place.
- Switch on the engine according to instructions and keep hands and feet away from cutting area. Keep clear of the discharge opening at all times.
- Never pick up or carry a lawn mower while the engine is running.
- Avoid holes, ruts, bumps, rocks, property stakes, or other hidden objects. Uneven terrain could cause a slip and fall accident.
- When not in use, mower should be stored in a well-ventilated, dry, locked up place-out of the reach of children.
- Follow manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.

**SAFETY RULES FOR PETROL LAWN MOWERS**

- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Stop the engine if the lawn mower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawn mower to and from the area to be mowed.
- Do not change the engine governor settings or over-speed the engine.
- Start the engine carefully according to instructions and with feet well away from the blade.
- Do not tilt the lawn mower when starting the engine.
- Do not start the engine when standing in front of the discharge chute.
- Stop the engine, disconnect the spark plug wire, and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the discharge chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
- If the machine strikes a foreign object, follow these steps:
  - Stop the mower and disconnect the spark plug wire.
  - Thoroughly inspect the mower and grass catcher for any damage.
  - Repair any damage before restarting and continuing to operate the mower.
- If the mower should start to vibrate abnormally, stop the engine, disconnect the spark plug wire, and check immediately for the cause. Vibration is generally a warning of trouble. Check the condition of the blade, as an unevenly worn or damaged blade can cause abnormal vibration. Unevenly worn or damaged blades should be replaced immediately to avoid the risk of serious injury.
- Allow engine to cool before storing in any enclosure.
- To reduce the risk of fire, keep the engine, muffler, and petrol storage area free of grass, leaves, and excessive grease.
- If the fuel tank has to be drained, this should be done outdoors.
- Disconnect the spark plug before making any adjustments, transporting, or storing the lawn mower. Such preventive safety measures reduce the risk of starting the product accidentally.

**SERVICE**

- Service on the product must be performed by qualified repair personnel only. Service or maintenance performed by unqualified personnel could result in a risk of injury to the user, or damage to the machine.
- Use only identical replacement parts when servicing the product. Use of unauthorised parts may create a risk of serious injury to the user, or damage to the product.

**NOTE:** Only perform the tasks listed in this manual. For other service or repair, it should be done by a qualified person.

**⚠ WARNING**

If any parts are missing, do not operate the unit until the missing parts are replaced. Failure to do so could result in possible serious personal injury.

Save this manual for future reference. Refer to them frequently and use them to instruct others who may use this product. If you lend someone this unit, lend them these instructions also.

## SYMBOLS

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

Precautions that involve your safety.

To reduce the risk of injury, user must read and understand operator's manual before using this product.

Keep all body parts and clothing clear of any belts or other moving parts.

To avoid injury, stay away from moving parts at all times.

Danger! Keep hands and feet away.

Danger of Ricochet. Keep all bystanders at least 15 m away.

To reduce the risk of injury or damage, avoid contact with any hot surface.

Do not smoke and stay away from open flames and sparks when filling fuel tank or when handling fuel.

Mowing when the catcher is empty

Stop mowing when the catcher is full.

Do not touch the hot metal surface.

Before using the product, remove the spark plug socket.

Loosen fuel cap slowly to release pressure and to keep petrol from escaping around the cap.

Carefully pour petrol into the tank.

Push the primer bulb 3 times.

Hold the power lever to down against the handle.

Pull the starter cord until the engine runs.

Mow across the surface of the slope. Avoid mowing up and down.

Remove objects that could be thrown by the rotating blade.

Keep bystanders a safe distance away from the machine.

Fuel and its vapours are explosive and can cause severe burns or death.

Fuel and its vapors are extremely flammable and explosive. Fire can cause severe burns or death.

Use unleaded petrol intended for motor vehicle use with an octane rating of 87 [(R + M)/2] or higher.

Use SAE 30 or 10W30 API-SJ weight oil.

Conforms to all regulatory standards in the country in the EU where the product is purchased.

Conformance to technical regulations

Release the power lever to stop the product.

Guaranteed sound power level is 98 dB.

## INTENDED USE

This product is intended for domestic lawn mowing. The cutting blade should rotate approximately parallel to the ground over which it is being wheeled. All four wheels should touch the ground while mowing. It is a pedestrian controlled walk behind mower.

**NOTE:** The mower should never be operated with the wheels off the ground, it should not be pulled or ridden on. It should not be used to cut anything other than domestic grass lawns.

## DESCRIPTION

*See figure 1.*

1. Side discharge deflector
2. Primer bulb
3. Spark plug boot
4. Oil cap/dipstick
5. Fuel cap
6. Height adjustment lever
7. Handle knob
8. Starter grip
9. Variable throttle
10. Power lever
11. Handle
12. Rope guide nut
13. Rear discharge door
14. Grass catcher
15. Male hose connector
16. Air filter
17. Mulching plug

18. Pins
19. Side discharge door
20. Hooks of side discharge deflector
21. Side discharge door opening

## ASSEMBLY

### UNPACKING

This product requires assembly.

- Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the product carefully to make sure no breakage or damage occurred during shipping.
- If any parts are damaged or missing, please call your Ryobi service centre for assistance.

**⚠ WARNING**

Do not use this product if any parts on the packing list are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

**⚠ WARNING**

If any parts are damaged or missing do not operate this product until the parts are replaced. Using a product with damaged or missing parts could result in serious personal injury.

**⚠ WARNING**

Do not attempt to modify the product or create accessories not recommended for use with the product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

**⚠ WARNING**

Never attach or adjust any accessory while the mower is running. Failure to stop the engine may cause serious personal injury.

**⚠ WARNING**

To prevent accidental starting that could cause serious personal injury, always disconnect the engine spark plug wire from the spark plug when assembling parts.

**⚠ WARNING**

Never operate the mower without the proper safety devices in place and working. Never operate the mower with damaged safety devices. Operation of this product with damaged or missing parts could result in serious personal injury.

### INSTALLATION OF THE HANDLE

*See figure 2.*

1. Place handles in correct operating position and tighten handle knobs to secure.
2. Place starter rope in guide on handle.
3. Install grass catcher or mulching plug.

### INSTALLING THE MULCHING PLUG (FOR MULCHING OPERATION)

*See figure 3.*

**NOTE:** When using the mulching plug, do not install the grass catcher.

1. Lift and hold up the rear discharge door.
2. Grasp the mulching plug by its handle and insert it at a slight angle, as shown.
3. Push the mulching plug securely into place.
4. Lower the rear discharge door.

### ASSEMBLING THE GRASS CATCHER

1. Slide plastic clips over the metal frame.
2. Snap the rest of the grass catcher parts into place.

### INSTALLING THE GRASS CATCHER (FOR REAR BAGGING OPERATION)

*See figure 4.*

**NOTE:** When using the grass catcher, do not install either the side discharge deflector or the mulching plug. Also, ensure side discharge door is closed securely.

1. Lift the rear discharge door.
2. Lift the grass catcher by its handle and place under the rear door, so that the hooks on the grass catcher frame are seated into the slots in the handle bracket.
3. Release the rear door. When installed correctly, the hooks on the grass catcher will rest securely in the slots on the handle brackets.

### INSTALLING SIDE DISCHARGE DEFLECTOR (FOR SIDE DISCHARGE OPERATION)

*See figure 7.*

**NOTE:** When using the side discharge deflector, do not install the grass catcher. The mulching plug should remain installed.

1. Lift the side discharge door.
2. Align the hooks on the deflector with the hinge rod on the underside of the door.
3. Lower the deflector until the hooks are secured on the mulch door hinge rod.
4. Release the deflector and side discharge door.

### SETTING BLADE HEIGHT

*See figure 6.*

When shipped, the wheels on the mower are set to a low-cutting position. Before using the mower for the first time, adjust the cutting position to the height best suited for your lawn. The average lawn should be between 3 and 6 cm, depending on the season.

- To raise the blade height, grasp the height adjustment lever and move it toward the back of the mower.
- To lower the blade height, grasp the height adjustment lever and move it toward the front of the mower.

## OPERATION

### MOWING TIPS

- Make sure the lawn is clear of stones, sticks, wires, and other objects that could damage the lawn mower blades or engine. Such objects could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator and others.
- For best performance, always cut off one-third or less of the total height of the grass.
- When cutting long grass, reduce walking speed to allow for more effective cutting and a proper discharge of the clippings.
- Do not cut wet grass, it will stick to the underside of the deck and prevent proper bagging or mulching of grass clippings.
- New or thick grass may require a higher cutting height.
- Clean the underside of the mower deck after each use to remove grass clippings, leaves, dirt, and any other accumulated debris.

### SLOPE OPERATION TIPS

*See figure 8.*

- Slopes are a major factor related to slip and fall accidents that can result in severe injury. Operation on slopes requires extra caution. If you feel uneasy on a slope, do not mow it. For your safety, do not attempt to mow slopes greater than 15 degrees.
- Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, rocks, hidden objects, or bumps which can cause you to slip or trip. Tall grass can hide obstacles. Remove all objects such as rocks, tree limbs, etc., which could be tripped over or thrown by the blade.
- Always be sure of your footing. A slip and fall can cause serious personal injury. If you feel you are losing your balance, release the power lever immediately.
- Do not mow near drop-offs, ditches, or embankments; you could lose your footing or balance.

### FUEL AND REFUELLING

**⚠ WARNING**

Always handle petrol with care; it is highly flammable.

- Store fuel in containers specifically designed for this purpose.
- Always refuel outdoors where there are no sparks and flames. Do not inhale fuel vapour. Do not smoke and stay away from open flames and sparks when filling fuel tank or when handling fuel.
- Do not let petrol or oil come in contact with your skin.
- Keep petrol and oil away from the eyes. If petrol or oil comes in contact with the eyes, wash them immediately with clean water. If irritation is still present, see a doctor immediately.
- Clean up spilled petrol immediately.

### FILLING THE TANK

*See figure 5.*

**⚠ WARNING**

Always shut off engine before fuelling. Never remove the cap of the fuel tank or add petrol to a machine with a running or hot engine. Move at least 9 m (30 ft) from refuelling site before starting the engine. Do not smoke. Failure to heed this warning could result in serious personal injury.

**⚠ WARNING**

After fueling, never tilt the mower more than 25 degrees for this could result in fuel leakage and risk of fire, etc.

1. Clean surface around fuel cap to prevent contamination.
2. Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap. Rest the cap on a clean surface.
3. Carefully pour petrol into the tank. Avoid spillage.
4. Clean and inspect the gasket, then replace all fuel and container caps securely.
5. Wipe up any fuel spillage. Move 9 m away from refuelling site before starting engine.

**NOTE:** It is normal for smoke to be emitted from a new engine during and after first use.

### ADDING/CHECKING ENGINE OIL

*See figure 5.*

Engine oil has a major influence on engine performance and service life. For general, all-temperature use, SAE 10W-30 is recommended. Always use a 4-cycle motor oil that meets or exceeds the requirements for API service classification SJ.

NOTE: Non-detergent or 2-cycle engine oils will damage

the engine and should not be used.

**To add engine oil:**

1. Be sure mower is level and area around oil cap/dipstick is clean.
2. Remove the cap and seal from oil bottle.
3. Unscrew the oil cap/dipstick and remove.
4. Slowly add oil. Fill to the “Full” line on dipstick. Do not overfill.

NOTE: When checking the oil level, seat the dipstick in the oil fill hole but do not screw in.

5. Reinstall the oil cap/dipstick and secure.

**To check engine oil:**

- Be sure mower is level and area around oil cap/dipstick is clean.
- Remove the oil cap/dipstick. Wipe clean and reseat in oil fill hole but do not screw in.
- Remove the oil cap/dipstick again and check oil level. Add oil as needed.

**STARTING OR STOPPING THE MOWER**

*See figure 5.*

**⚠ WARNING**

Never start or run the engine inside a closed or poorly ventilated area; breathing exhaust fumes can kill.

**Starting the engine**

1. Set the variable throttle lever in the fastest speed.
2. Press the primer bulb 3 times.
   NOTE: This step is not usually necessary when starting an engine that has already run for a few minutes.
3. Hold the power lever bar down against the handle.
4. Pull the starter grip until the engine starts. Release the starter cord slowly so the rope does not snap back.
   NOTE: It may be necessary to repeat priming steps in cooler weather. In warmer weather, overpriming may cause flooding and engine will not start. If you do flood the engine, wait a few minutes before attempting to start and do not repeat priming steps.

**Stopping the engine**

Release the power lever and allow the engine to come to a stop.

**USING THE VARIABLE THROTTLE**

- The variable throttle lever on the handle allows the user to set variations in the engine speed only, and it should be set in the fastest speed when starting the mower and when cutting grass.
- The variable throttle lever will not stop the engine. The operator control bail on the handle must be released to stop the engine.

**EMPTYING THE GRASS CATCHER**

*See figure 9.*

1. Stop the mower and wait for the blade to come to a complete stop.
2. Lift the rear discharge door.
3. Grasp grass catcher by its handle and lift to remove from mower.
4. Empty grass clippings.
5. Lift the rear discharge door and reinstall the grass catcher.

## MAINTENANCE

**⚠ WARNING**

Before performing any maintenance, stop the mower, allow the blade to come to a complete stop, and disconnect the spark plug wire from the spark plug. Failure to heed this warning could result in serious personal injury.

**⚠ WARNING**

When servicing, use only authorised replacement parts. Use of any other parts may create a hazard or cause product damage.

## GENERAL MAINTENANCE

- Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.
- Periodically check all nuts and bolts for proper tightness to ensure safe operation of the mower.
- Remove any buildup of grass and leaves on or around the engine and engine cover. Wipe the mower clean with a dry cloth occasionally.

**⚠ WARNING**

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic which may result in serious personal injury.

**CLEANING THE UNDERSIDE OF THE MOWER DECK**

1. Raise the mower to full height.
2. Connect a female water hose connector (not supplied) to the male hose connector on the mower deck.
3. Turn on the water supply.
4. Start the mower and run at full revolutions, but do not engage the self-propel bail.

5. Run the engine in place for approximately 30 seconds.
6. Shut off the engine.
7. Turn off the water supply.
8. Inspect the underside of the mower deck for cleanliness, and repeat the cleaning procedure if desired.

**LUBRICATION**

All of the bearings in this product are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further bearing lubrication is required.

**⚠ WARNING**

Always protect hands by wearing heavy gloves and/or wrapping the cutting edges of the blade with rags and other material when performing blade maintenance. Contact with the blade could result in serious personal injury.

**REPLACING THE CUTTING BLADE**

*See figure 10.*

For best results, the mower blade must be kept sharp. Replace a bent or damaged blade immediately.

**⚠ WARNING**

Only use replacement blades approved by the manufacturer of your mower. Using a blade not approved by the manufacturer of your mower is hazardous and could result in serious injury, damage your mower, and void your warranty.

**⚠ WARNING**

Drain the fuel first before tilting the mower to replace the blade.

1. Stop the engine and disconnect the spark plug wire. Allow blade to come to a complete stop.
2. Turn the mower on its side (carburetor facing up).
3. Wedge a block of wood between the blade and mower deck to prevent the blade from turning.
4. Using a 9/16-in. wrench or socket (not provided), loosen the blade bolt by turning the bolt in a counterclockwise direction as viewed from the bottom of the mower.
5. Remove the blade bolt, lock washer, flat washer, and blade.
6. Place the new blade on the shaft. Make sure it is installed with the curved ends pointing up toward the mower deck and not down toward the ground.
7. Replace the flat washer, lock washer, and blade bolt on the shaft. Finger tighten the bolt by turning in a clockwise direction as viewed from the bottom of the mower.
   **NOTE:** Make certain all parts are replaced in the exact order in which they were removed.
8. Torque the blade bolt down using a torque wrench (not provided) to ensure the bolt is properly tightened.
9. The recommended torque for the blade bolt is 48–55 Nm (35–40 ft.lb.).
   **NOTE:** We do not recommend sharpening the blade, but if you do, be sure the blade is balanced before reinstalling.

**REPLACING THE WHEELS**

*See figure 14.*

1. Stop the engine and disconnect the spark plug wire. Allow blade to come to a complete stop.
2. Remove the hub cap.
3. Remove the nut from the wheel axle, then remove the wheel.
4. Replace with new wheel and reinstall nut to secure.

**CLEANING THE AIR FILTER**

*See figure 12.*

For proper performance and long life, keep the air filter clean.

1. Remove the air filter cover by pushing down the latch while gently pulling out the cover.
2. Remove the air filter and clean it in warm soapy water. Rinse and let dry completely.
3. Apply a light coat of engine oil to the air filter, then squeeze it out using an absorbent cloth or paper towel.
4. Reinstall the air filter into the air filter base.
5. Replace and secure the air filter cover.
   NOTE: The filter should be replaced annually for best performance.

**⚠ WARNING**

A leaking fuel cap is a fire hazard and must be replaced immediately.

The fuel cap contains a non-serviceable filter and a check valve. A clogged fuel cap will cause poor engine performance. If performance improves when the fuel cap is loosened, check valve may be faulty or clogged. Replace fuel cap if required.

**CHANGING THE ENGINE OIL**

*See figure 13.*

Engine oil should be changed after every 25 hours of use. Change the oil while the engine oil is still warm, but not hot. This allows the oil to drain quickly and completely.

1. Remove the oil fill cap/dipstick.
2. Tip mower onto its side and allow oil to drain from the oil fill hole into an approved container.
3. Place mower upright and refill with oil.
   NOTE: Used oil should be disposed of at an approved disposal site. See your local oil retailer for more information.

**MAINTAINING THE SPARK PLUG**

*See figure 11.*

The spark plug must be properly gapped and free of deposits in order to ensure proper engine operation. To check:

1. Remove spark plug boot.
2. Clean any dirt from around base of spark plug.
3. Remove spark plug using a 13/16 in. spark plug socket (not provided).
4. Inspect spark plug for damage, and clean with a wire brush before reinstalling. If insulator is cracked or chipped, spark plug should be replaced.
   NOTE: If replacing, use the following recommended plugs are Torch E7RTC is NGK BPR6HS.
5. Measure plug gap. The correct gap is 0.028 − 0.031 in. To widen gap, if necessary, carefully bend the ground (top) electrode. To lessen gap, gently tap ground electrode on a hard surface.
6. Seat spark plug in position; thread in by hand to prevent cross-threading.
7. Tighten with wrench to compress washer. If spark plug is new, use 1/2 turn to compress washer appropriate amount. If reusing old spark plug, use 1/8 to 1/4 turn for proper washer compression.
   NOTE: An improperly tightened spark plug will become very hot and could damage the engine.
8. Reinstall spark plug boot.

**MAINTAINING THE DRIVE GEAR**

*See figure 15.*

To ensure smooth operation of wheels, the wheel assembly should be cleaned before storage.

1. Remove the nut and wheel and set aside.
2. Remove dust cover, e-ring, washer, pins, and wheel gear. Clean any dirt from these items and the end of the drive shaft by wiping with a dry cloth. If necessary, rubbing alcohol may be used to remove any stubborn dirt.

**⚠ WARNING**

Do not lubricate any of the components of the wheel. Lubrication may cause the wheel components to fail during use, which could result in mower damage and/or serious personal injury to the operator.

3. Reinstall wheel gear with the arrows facing the front of the mower. Reinstall pins, washer, e-rings, and dust cover.
4. Reinstall wheel and nut. Tighten nut to secure.

**STORING THE PRODUCT**

**When storing the mower for 30 days or more:**

- If using fuel stabilizer, follow stabilizer manufacturer's directions to add stabilizer to petrol in fuel tank. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor.

**⚠ WARNING**

Do not store the lawn mower with petrol in the tank inside a building where fumes may reach an open flame or spark.

- If not using fuel stabilizer, allow the engine to run until the mower is completely out of petrol.
- Once the engine has stopped, allow the blade to come to a complete stop and disconnect the spark plug wire.
- Turn the fuel valve to the closed position.
- Turn mower on its side (with carburetor facing up) and clean grass clippings that have accumulated on the underside of the mower deck.
- Clean the underside of the mower deck.
- Wipe the mower clean with a dry cloth.
- Check all nuts, bolts, knobs, screws, fasteners, etc., for tightness.
- Inspect moving parts for damage, breakage, and wear. Have repairs made on any damaged or missing parts.
- Store the mower in a well-ventilated area that is clean, dry, and out of the reach of children.
- Do not store near corrosive materials such as fertilizer or rock salt.

**To lower the handle before storing:**

- Loosen the starter rope guide knob.
- Fully loosen the handle knobs on the sides of the handle and fold the upper handle down.
- Unscrew the lower handle lock nuts.
- Fold the lower handle forward, making sure not to bend or kink the control cables.

## SPECIFICATIONS

| | |
|---|---|
| Engine | Subaru 190cc OHC |
| Drive system | Rear wheel self-propelled |
| No-load speed | 2,800 / min (RPM) |
| Cutting path | 530 mm |
| Height adjustments | 7 positions |
| | 19 mm−76 mm |
| **Wheel size** | |
| - Front | 20.3 cm (8 inch) |
| - Rear | 27.9 cm (11 inch) |
| Grass bag capacity | 70 litres |
| Measured sound power level | LwA 97.28 dB(A), K= 0.88 dB |
| Sound pressure level | LpA 81.7 dB(A), K= 3 |
| Vibration level | 3.92 m/s², K= 1.5 |
| Guaranteed sound power level | 98.0 dB(A) |
| Weight | 41.5 kg |

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## TROUBLESHOOTING

| Problem | Possible cause | Solution |
|---|---|---|
| Handle not in correct position. | Handle positioned incorrectly. | Check to be sure that lower part of handle is pushed fully back and snapped into proper position. |
| | Handle knobs not tightened. | Tighten handle knobs. |
| Mower is not starting. | No spark. | Use spark tester to check for proper spark plug operation. |
| | No petrol. | Check the fuel valve set to open.<br>Fill mower with petrol. If mower still does not start, contact a servicing dealer. |
| | Engine is flooded. | Wait 15 minutes, then try starting mower again. Do not prime before attempting to start. |
| | Starter rope pulls harder now than when new. | Contact a servicing dealer. |
| Mower is hard to push. | High grass, rear of mower housing and blade are dragging in heavy grass, or cutting height too low. | Raise the cutting height. |
| | Wheel assembly needs cleaning. | Clean wheel assembly. |
| Mower is vibrating at higher speed. | Blade is unbalanced. | Replace the blade. |
| | Bent motor shaft. | Stop the engine, disconnect the spark plug wire from the spark plug, and inspect for damage. Have it repaired by an authorised service center before restarting. |
| Mower is not mulching properly. | Wet grass clippings are sticking to the underside of the deck. | Wait until the grass dries before mowing. Clean the underside of the mower deck. |
| Mower is not bagging properly. | Cutting height set too low. | Raise the cutting height. |

## GUARANTEE

In addition to any statutory rights resulting from the purchase, this product is covered by a guarantee as stated below.

1. The guarantee period is 24 months for consumers and commences on the date when the product was purchased. This date has to be documented by an invoice or other proof of purchase. The product is designed and dedicated to consumer and private use only. So there is no guarantee provided in case of professional or commercial use.
2. There is, in some cases (i.e. promotion, range of tools), a possibility to extend the warranty period over the period described above using the registration on the www.ryobitools.eu website. The eligibility of the tool is clearly displayed in stores and/or on packaging. The end user needs to register his/her newly-acquired tools online within 8 days the date of purchase. The end user may register for the extended warranty in his country of residence if listed on the online registration form where this option is valid. Furthermore, end users must give their consent to the storage of the data which are required to enter online and they have to accept the terms and conditions. The registration confirmation receipt, which is sent out by e-mail, and the original invoice showing the date of purchase will serve as proof of the extended warranty. Your statutory rights remain unaffected.
3. The guarantee covers all defects of the product during the warranty period due to defaults in workmanship or material at the purchase date. The guarantee is limited to repair and/or replacement and does not include any other obligations including but not limited to incidental or consequential damages. The warranty is not valid if the product has been misused, used contrary to the instruction manual, or being incorrectly connected. This guarantee does not apply to:
   - any damage to the product that is the result of improper maintenance
   - any product that has been altered or modified
   - any product where original identification (trade mark, serial number) markings have been defaced, altered or removed
   - any damage caused by non-observance of the instruction manual
   - any non CE product
   - any product which has been attempted to be repaired by an non-qualified professional or without prior authorization by Techtronic Industries
   - any product connected to improper power supply (amps, voltage, frequency)
   - any product used with inappropriate fuel mixture (fuel, oil, percentage of oil)
   - any damage caused by external influences (chemical, physical, shocks) or foreign substances
   - normal wear and tear of spare parts
   - inappropriate use, overloading of the tool
   - use of non-approved accessories or parts
   - carburettor after 6 months, carburettor adjustments after 6 months
   - components (parts and accessories) subject to natural wear and tear, including but not limited to bump knobs, drive belts, clutch, blades of hedge trimmers or lawn mowers, harness, cable throttle, carbon brushes, power cord, tines, felt washers, hitch pins, blower fans, blower and vacuum tubes, vacuum bag and straps, guide bars, saw chains, hoses, connector fittings, spray nozzles, wheels, spray wands, inner reels, outer spools, cutting lines, spark plugs, air filters, gas filters, mulching blades, etc.
4. For servicing, the product must be sent or presented to an RYOBI authorized service station listed for each country in the following list of service station addresses. In some countries your local RYOBI dealer undertakes to send the product to the RYOBI service organisation. When sending a product to an RYOBI service station, the product should be safely packed without any dangerous contents such as petrol, marked with sender's address and accompanied by a short description of the fault.
5. A repair/replacement under this guarantee is free of charge. It does not constitute an extension or a new start of the guarantee period. Exchanged parts or tools become our property. In some countries delivery charges or postage will have to be paid by the sender.
6. This guarantee is valid in the European Community, Switzerland, Iceland, Norway, Liechtenstein, Turkey and Russia. Outside these areas, please contact your authorized RYOBI dealer to determine if another warranty applies.

## AUTHORISED SERVICE CENTRE

To find an authorised service centre near you, visit ryobitools.eu.

## DECLARATION OF CONFORMITY

Techtronic Industries GmbH
Max-Eyth-Strasse 10, D-71364 Winnenden, Germany

*Herewith we declare that the product*

Petrol Lawn Mower
Model number: RLM5319SMEB
Serial number range: 92300402000001 - 92300402999999

*is in conformity with the following European Directives and harmonised standards*

2006/42/EC, 2004/108/EC, 2000/14/EC, 2005/88/EC, 2011/65/EU,
EN 836:1997+A4:2011

Measured sound power level: 97.28 dB(A)
Guaranteed sound power level: 98.0 dB(A)
Conformity assessment method to Annex VI Directive 2000/14/EC.

CE 2012

James Ferrell
Director of Engineering, Outdoor Products
Hong Kong, Sep. 30, 2012

Authorised to compile the technical file:
Rainer Kumpf
Techtronic Industries GmbH
Max-Eyth-Strasse 10, D-71364 Winnenden, Germany

RYOBI